

FIG. 4

- 8 HEAD SECTION
- 13 TRANSPORT MOTOR
- 17 FLUSHING AREA DETECTION SENSOR
- 18 PAPER DETECTION SENSOR
- 42 MEMORY
- 51 SENSOR BOARD
- 52 MOTOR DRIVER
- 53 HEAD DRIVER
- 61 TEMPERATURE AND HUMIDITY SENSOR
- 62 FEED MOTOR

FIG. 5

PRINT PROCESSING

S1 FORWARD RUN BELT
S2 FLUSHING AREA DETECTED
S3 START COUNTER
S4 INSERT PAPER
S5 FLUSHING TIMING REACHED FOR EACH INK HEAD?
S6 PERFORM SIMULTANEOUS FLUSHING
S7 COMPLETED FOR ALL INK HEADS?
S8 PAPER DETECTED?
S9 PRINT ONE IMAGE
S10 PERFORM IMAGE-TO-IMAGE FLUSHING
S11 NOZZLE DRY LIMIT REACHED?
S12 FLUSHING AREA DETECTED?
S13 START COUNTER
S14 FLUSHING TIMING REACHED FOR EACH INK HEAD?
S15 PERFORM SIMULTANEOUS FLUSHING
S16 COMPLETED FOR ALL INK HEADS?
S17 END OF PRINT?
S18 STOP BELT
S19 PAPER CUT?
S20 REWIND
END

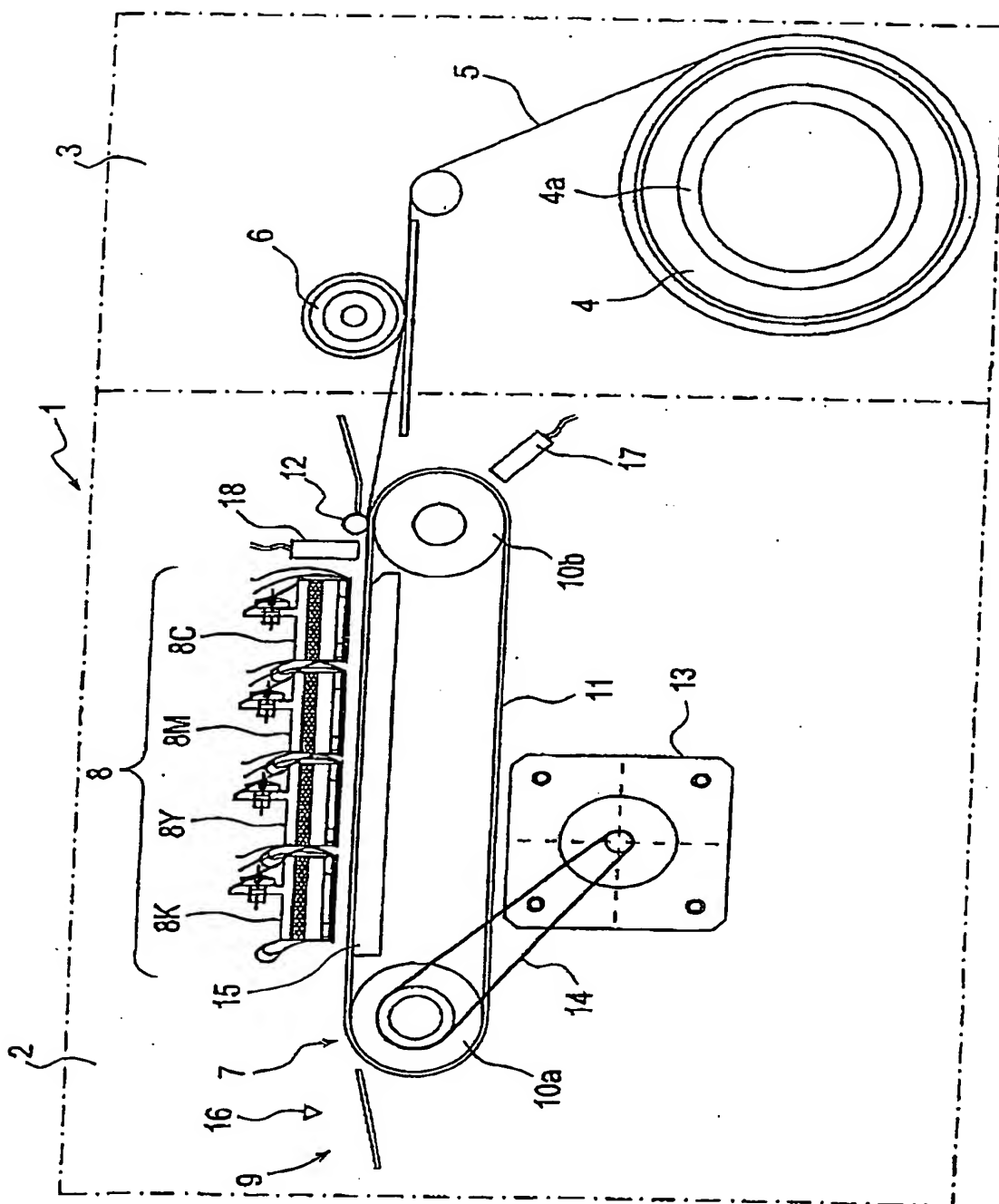
FIG. 8

PRINT PROCESSING

S31 FORWARD RUN BELT
S32 FLUSHING AREA DETECTED
S33 START COUNTER
S34 INSERT PAPER
S35 FLUSHING TIMING REACHED FOR EACH INK HEAD?
S36 PERFORM SIMULTANEOUS FLUSHING
S37 COMPLETED FOR ALL INK HEADS?
S38 PAPER DETECTED?
S39 PRINT ONE IMAGE
S40 PERFORM IMAGE-TO-IMAGE FLUSHING
S41 AS MANY IMAGES AS SPECIFIED NUMBER PRINTED?
S42 STOP BELT
S43 PAPER CUT?
S44 REWIND
S45 COMPLETELY EJECTED?
S46 FORWARD RUN BELT
S47 FLUSHING AREA DETECTED?
S48 START COUNTER
S49 FLUSHING TIMING REACHED FOR EACH INK HEAD?
S50 PERFORM SIMULTANEOUS FLUSHING
S51 COMPLETED FOR ALL INK HEADS?

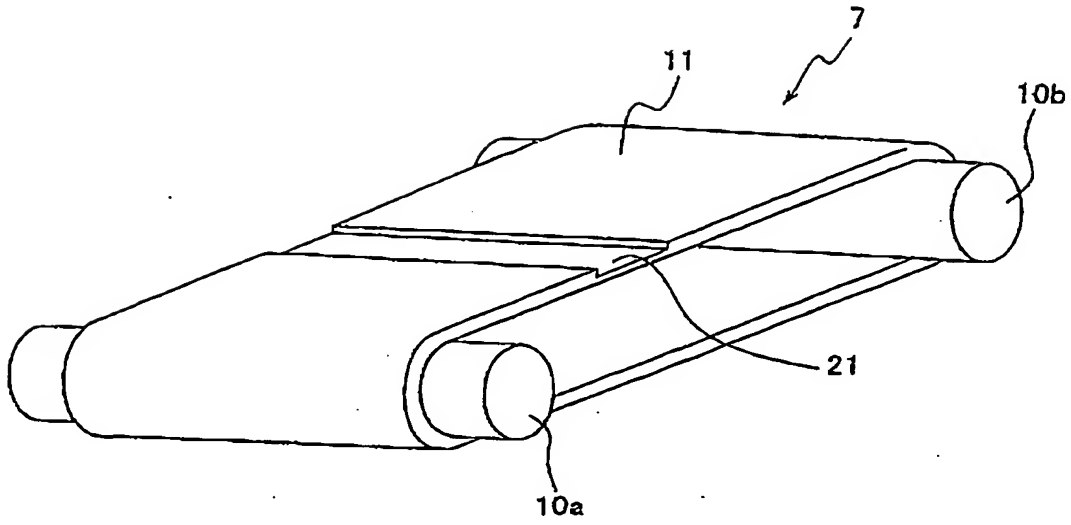
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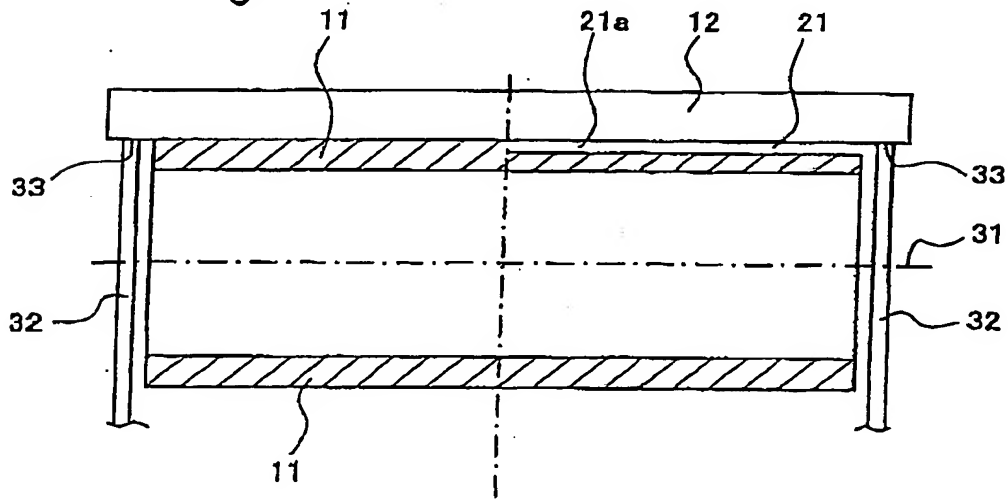


【図2】

Fig. 2



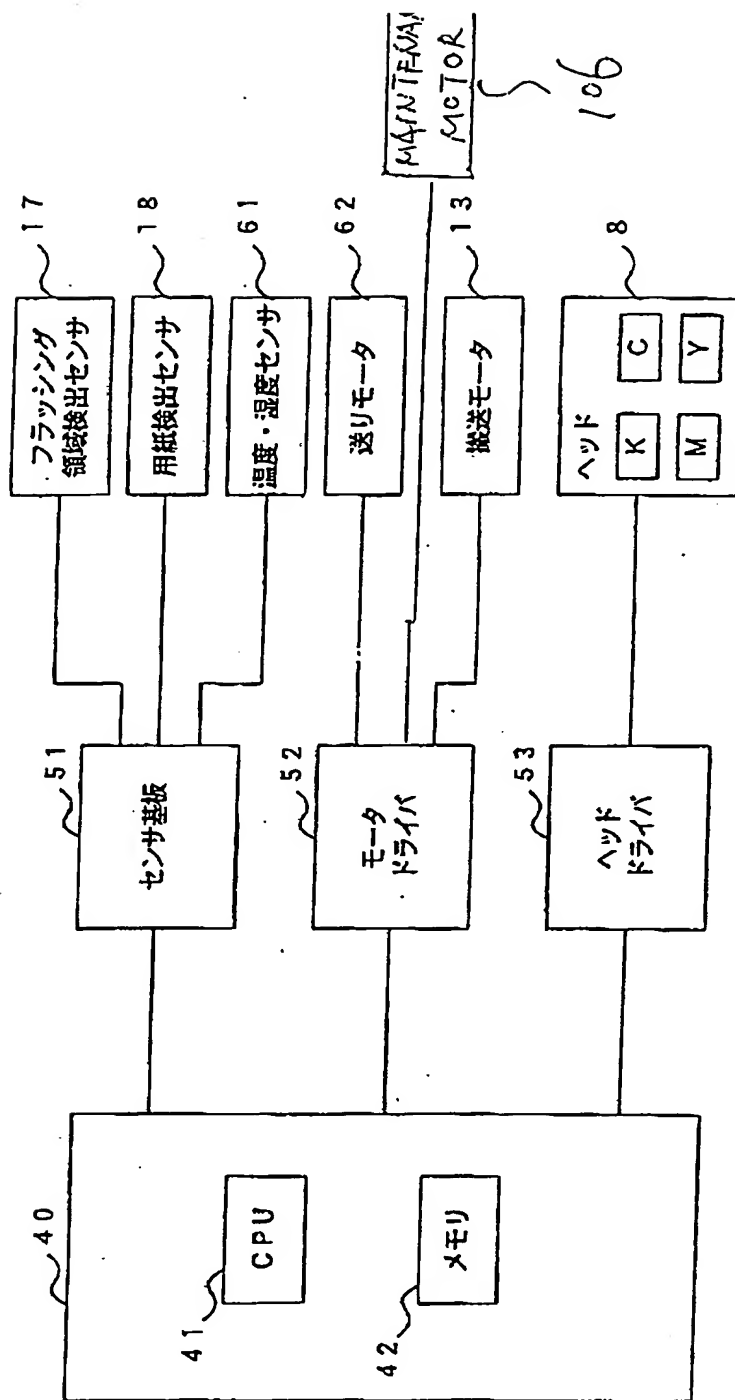
【図3】 Fig. 3



【図4】

Fig. 4

【図5】

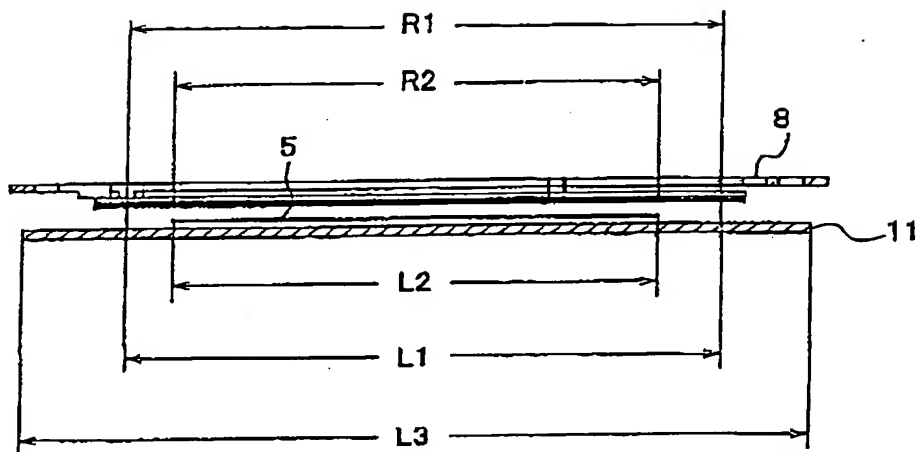


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graph TD
    Start([印字処理]) --> S1[S1: ベルト正転]
    S1 --> S2{S2: フラッシング領域検出?}
    S2 -- NO --> S2
    S2 -- YES --> S3[S3: カウントスタート]
    S3 --> S4[S4: 用紙挿入]
    S4 --> S5{S5: 各インクのフラッシングタイミング?}
    S5 -- NO --> S5
    S5 -- YES --> S6[S6: 一斉フラッシング]
    S6 --> S7{S7: 全インクについて終了か?}
    S7 -- NO --> S5
    S7 -- YES --> S8{S8: 用紙検出?}
    S8 -- NO --> S8
    S8 -- YES --> S9[S9: 一画像印刷]
    S9 --> S10[S10: 画像間フラッシング]
    S10 --> S11{S11: ノズル乾燥限界?}
    S11 -- YES --> A((A))
    S11 -- NO --> S12{S12: フラッシング領域検出?}
    S12 -- NO --> S12
    S12 -- YES --> S13[S13: カウンタスタート]
    S13 --> S14{S14: 各インクのフラッシングタイミング?}
    S14 -- NO --> S14
    S14 -- YES --> S15[S15: 一斉フラッシング]
    S15 --> S16{S16: 全インクについて終了か?}
    S16 -- NO --> S14
    S16 -- YES --> S17{S17: 印刷終了}
    S17 -- NO --> S11
    S17 -- YES --> S18[S18: ベルト停止]
    S18 --> S19{S19: 用紙切断?}
    S19 -- NO --> S19
    S19 -- YES --> S20[S20: 巻戻し]
    S20 --> End([印字終了])
    A --> S12
  
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Fig. 6

【図6】



【図7】

Fig. 7A

(a)

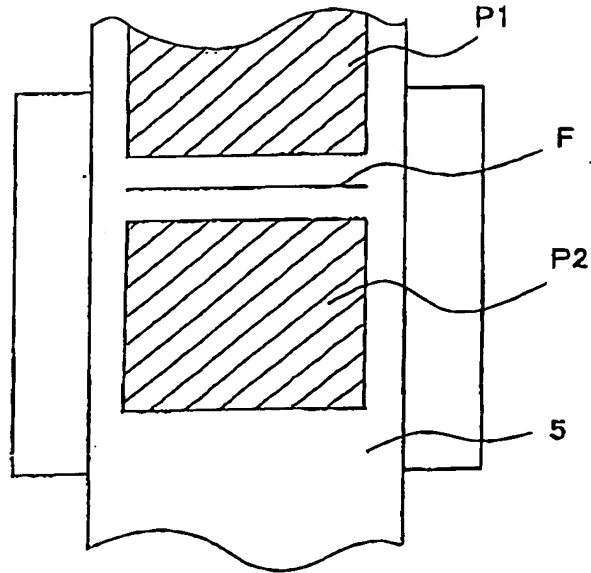


Fig. 7B

(b)

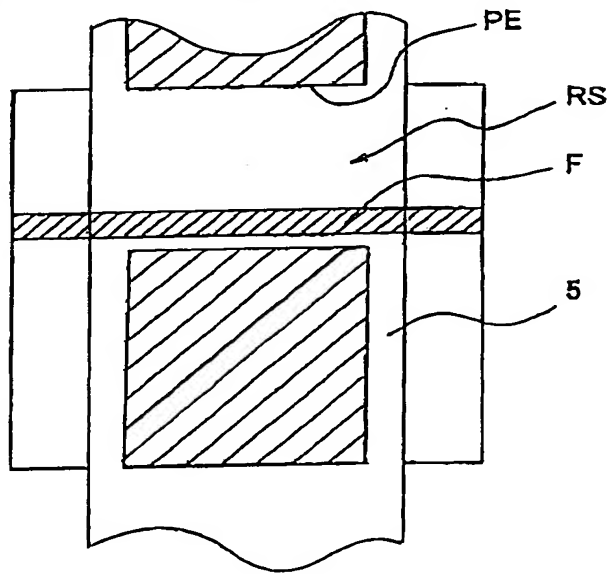
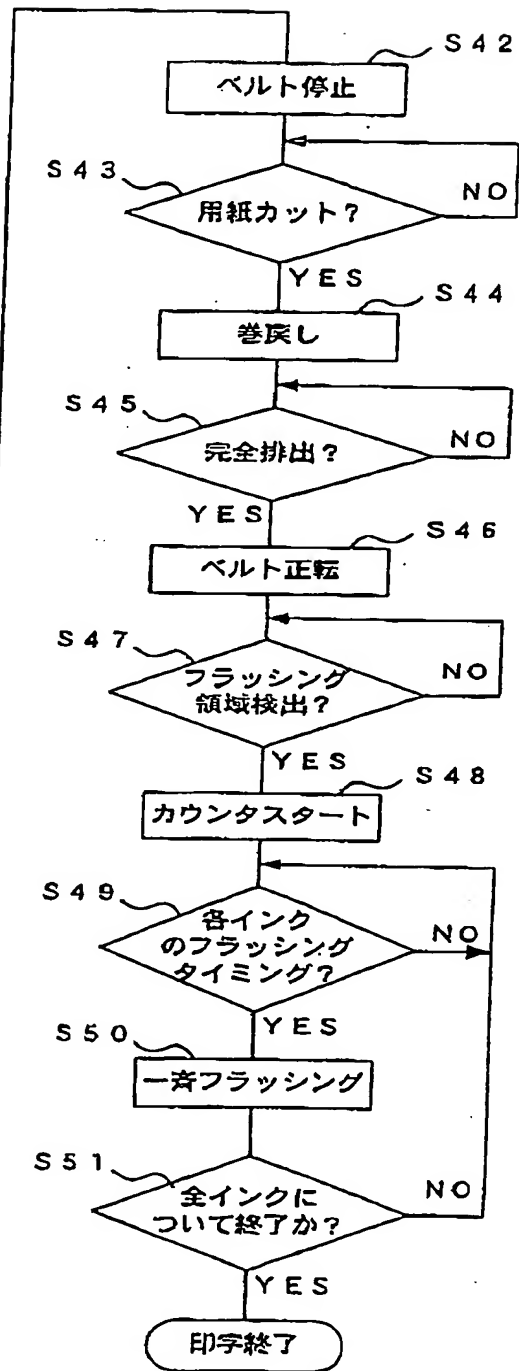
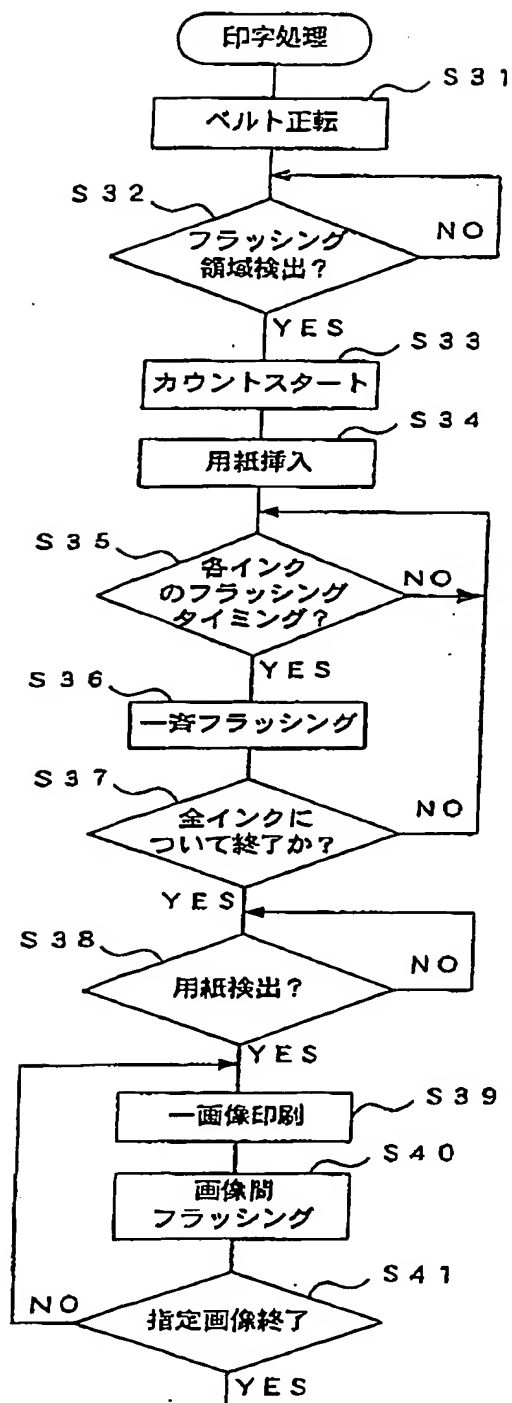


Fig. 8



【図9】

Fig. 9

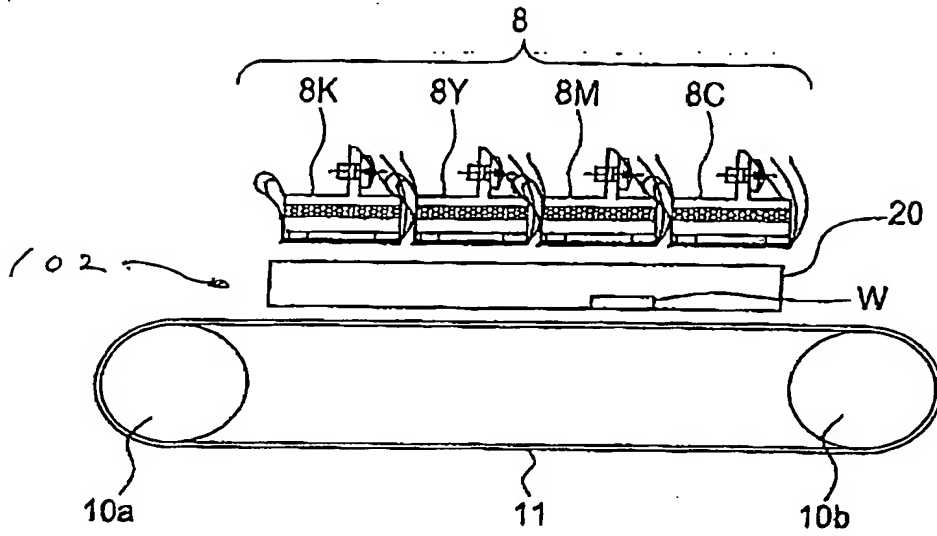


Fig. 10

